

Amendments to the Claims

The following claims will replace all prior versions of the claims in this application:

1. (currently amended) A directed light source for efficient light emission, the light source comprising:

a planar substrate having a front ~~top~~ surface and an opposite back ~~bottom~~ surface;

a light emitting device located on the front ~~top~~ surface of the planar substrate;

a clear reflector having a back surface facing the front ~~top~~ surface of the planar substrate and a semi-cylindrical front surface having a vertical axis, the reflector including a reflecting top surface and an opposite and quadrilaterally symmetrical reflecting bottom surface, the reflector causing light from the light emitting device to be directed out from the semi-cylindrical front surface in a substantially horizontal plane.

2. (original) The light source of claim 1 wherein the reflector is fabricated from plastic.

3. (original) The light source of claim 1 wherein the light emitting device is a light emitting diode (LED).

4. (currently amended) The light source of claim 1 further comprising a heat sink coupled to the back ~~bottom~~ surface of the planar substrate.

5. (currently amended) The light source of claim 1 further comprising a semi-cylindrical toroidal lens located on the semi-cylindrical front surface which collimates light substantially parallel to the horizontal plane.

6. (currently amended) The light source of claim 1 wherein the top and bottom reflecting surfaces are angled such to create total internal reflection of from light from the light emitting device.

7. (original) The light source of claim 1 wherein the top and bottom reflecting surfaces have a specular reflective layer.

8. (original) The light source of claim 7 wherein the specular reflective layer is an evaporated aluminum coating.

9. (original) The light source of claim 7 wherein the specular reflective layer is a sprayed chrome finish.

Claim 10 (cancelled)

11. (currently amended) The light source of claim 1 further comprising wherein a lens is formed in a cavity in the back surface of the reflector, and wherein the lens within the reflector to focus focuses beams from the light on a the horizontal plane.

12. (previously presented) The light source of claim 1 wherein an aperture is installed over a part of the semi-cylindrical front surface to restrict the angle of light emission.

Claims 13-22 (cancelled)

23. (new) The light source of claim 5 further comprising a semi-cylindrical toroidal lens located on the semi-cylindrical front surface which collimates light substantially parallel to the horizontal plane.